ANALYST:	VPDES NO	
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Parameter: Total Residual Chlorine

Method: Chlorine Electrode

04/01

## METHOD OF ANALYSIS:

(	ORION RESEARCH INSTRUCTION MANUAL
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		Y	N
1)	Is the electrode an Orion Model 97-70? [Mfr.]		
2)	Is distilled water prepared from an alkaline potassium permanganate solution? [Mfr.]		
3)	Is electrode slope measured correctly? [Mfr.]		
4)	Is slope greater than 26 mV per 10 mg/l? [Mfr.]		
5)	Is 1 ppm standardizing solution prepared fresh daily? [Mfr.]		
6)	Is the 1 mL residual chlorine standard, 1 mL iodide reagent, and 1 mL acid reagent swirled for at least 2 minutes before dilution to volume? [Mfr.]		
7)	Is 99 mL distilled water added and mixed thoroughly? [Mfr.]		
8)	Is meter calibrated to 1 ppm reading (0.00 mV) with the standardizing solution for each test? [Mfr.]		
9)	Is the 100 mL of sample, 1 mL of iodide reagent, and 1 mL of acid reagent allowed to stand for at least two minutes prior to measurement? [Mfr.]		
10)	Is electrode blotted dry between calibration and measurement? [Mfr.]		
11)	Are the standard and samples left un-stirred during measurement? [Mfr.]		
12)	Is a standard curve developed using a reagent blank and three standard solutions containing 0.2, 1.0, 5.0 mL 0.00281 N potassium iodate/100 mL solution, respectively? [40 CFR, Part 136.3, footnote 16]		
13)	If measuring below 0.2 ppm, was a blank used for correcting measurement? [Mfr.]		
14)	Is sample value read correctly? [Mfr.]		

PROBLEMS: